

# Abstract

Botulinum toxin A is a standard treatment of spasticity in cerebral palsy. Rules for its use and subsequent rehabilitation differ in the Czech Republic. Currently, there are no published guidelines for this treatment in the Czech Republic. The principle aim of this thesis is to explore the different strategies for the clinical use of botulinum toxin in Czech Republic. First, the background of this thesis is covering up-to-date information about cerebral palsy, its treatment and its modalities with the main focus on botulinum toxin use and subsequent rehabilitation. Lastly, the background explores the published guidelines for the botulinum toxin treatment in children with cerebral palsy.

This thesis is focusing on qualitative research with seven medical doctors in the Czech Republic from eight neurologists in total, who are actively administering botulinum toxin to their patients with cerebral palsy. We are researching their criteria for indication, the strategies they are using when administering BTX, dosing, and the frequent complications they encounter. We also focus on their recommendation of rehabilitation.

The outcome of this thesis is a qualitative analysis of the botulinum toxin A treatment strategies uncovering differences in the localization techniques, clinical Another outcome of this thesis is the fact, that rehabilitation care is thought to be a fundamental part of the treatment by all the examined medical doctors. We have also found that the practice of majority of the examined doctors, mainly the professionally younger ones, is in accordance with published guidelines when it comes to the indication criteria, age limit, frequency of the application, maximal dose, and integration of rehabilitation. We have also found differences in the practice of the majority of Czech medical doctors and recommended practices by the guidelines, mainly in clinical examination strategies, localization of muscles and muscle selection concept.